

R. LOEWY (Haifa, Israel) An Inertia Theorem for Lyapunov's Equation and the Dimension of a Controllability Space	1
FLORIAN BÜNGER, FRIEDER KNÜPPEL, AND KLAUS NIELSEN (Kiel, Germany) Products of Symmetries in Unitary Groups	9
M. HOFMEISTER (Munich, Germany) On the Two Largest Eigenvalues of Trees	43
DANIEL AUGOT AND PAUL CAMION (Le Chesnay, France) On the Computation of Minimal Polynomials, Cyclic Vectors, and Frobenius Forms	61
CAROLYN A. ESCHENBACH, FRANK J. HALL (Atlanta, Georgia), CHARLES R. JOHNSON (Williamsburg, Virginia), AND ZHONGSHAN LI (Atlanta, Georgia) The Graphs of the Unambiguous Entries in the Product of Two (+, -) Sign Pattern Matrices	95
PHILIP THIJSSE (Rotterdam, The Netherlands) Upper Triangular Similarity of Upper Triangular Matrices	119
A. FERNÁNDEZ LÓPEZ, E. GARCÍA RUS, M. GÓMEZ LOZANO, AND M. SILES MOLINA (Málaga, Spain) Jordan Canonical Form for Finite Rank Elements in Jordan Algebras	151
F. MARCELLÁN (Madrid, Spain) AND J. PETRONILHO (Coimbra, Portugal) Eigenproblems for Tridiagonal 2-Toeplitz Matrices and Quadratic Polynomial Mappings	169
JUNGONG XUE (Shanghai, People's Republic of China) A Note on Entrywise Perturbation Theory for Markov Chains	209
DASONG CAO (Atlanta, Georgia), V. CHVÁTAL (New Brunswick, New Jersey), A. J. HOFFMAN (Yorktown Heights, New York), and A. VINCE (Gainesville, Florida) Variations on a Theorem of Ryser	215
ZHONGZHI BAI (Beijing, People's Republic of China) AND DEREN WANG (Shanghai, People's Republic of China) A Class of New Hybrid Algebraic Multilevel Preconditioning Methods	223

R. LOEWY (Haifa, Israel) An Inertia Theorem for Lyapunov's Equation and the Dimension of a Controllability Space	1
FLORIAN BÜNGER, FRIEDER KNÜPPEL, AND KLAUS NIELSEN (Kiel, Germany) Products of Symmetries in Unitary Groups	9
M. HOFMEISTER (Munich, Germany) On the Two Largest Eigenvalues of Trees	43
DANIEL AUGOT AND PAUL CAMION (Le Chesnay, France) On the Computation of Minimal Polynomials, Cyclic Vectors, and Frobenius Forms	61
CAROLYN A. ESCHENBACH, FRANK J. HALL (Atlanta, Georgia), CHARLES R. JOHNSON (Williamsburg, Virginia), AND ZHONGSHAN LI (Atlanta, Georgia) The Graphs of the Unambiguous Entries in the Product of Two (+, -) Sign Pattern Matrices	95
PHILIP THIJSSE (Rotterdam, The Netherlands) Upper Triangular Similarity of Upper Triangular Matrices	119
A. FERNÁNDEZ LÓPEZ, E. GARCÍA RUS, M. GÓMEZ LOZANO, AND M. SILES MOLINA (Málaga, Spain) Jordan Canonical Form for Finite Rank Elements in Jordan Algebras	151
F. MARCELLÁN (Madrid, Spain) AND J. PETRONILHO (Coimbra, Portugal) Eigenproblems for Tridiagonal 2-Toeplitz Matrices and Quadratic Polynomial Mappings	169
JUNGONG XUE (Shanghai, People's Republic of China) A Note on Entrywise Perturbation Theory for Markov Chains	209
DASONG CAO (Atlanta, Georgia), V. CHVÁTAL (New Brunswick, New Jersey), A. J. HOFFMAN (Yorktown Heights, New York), and A. VINCE (Gainesville, Florida) Variations on a Theorem of Ryser	215
ZHONGZHI BAI (Beijing, People's Republic of China) AND DEREN WANG (Shanghai, People's Republic of China) A Class of New Hybrid Algebraic Multilevel Preconditioning Methods	223

Table of Contents continued

A. V. ILTYAKOV (Novosibirsk, Russia)	
On Polynomial Identities of Jordan Pairs of Rectangular Matrices	257
WERNER RATH (Chemnitz, Germany)	
Derivative and Proportional State Feedback for Linear Descriptor Systems With Variable Coefficients	273
LEROY B. BEASLEY (Logan, Utah), AN-HYUN KIM (Changwon, Korea), AND WOO YOUNG LEE (Suwon, Korea)	
On a Positive Linear Map Preserving Absolute Values	311
FERNANDO C. SILVA (Lisboa, Portugal)	
On a Conjecture About the Jordan Form of Completions of Partial Upper Triangular Matrices	319
RICHARD A. BRUALDI	
From the Editor-in-Chief	323
LIST OF REFEREES	325
20-VOLUME AUTHOR INDEX	329